

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method for coupling each of one or more peripheral devices to a network of distributed antennas, each peripheral device being suitable for transmission of one or more carrier signals, which each occupy a different radio frequency band, the network of antennas comprising a main transmission path by cable, in which the carrier signals are coupled into and out of the main transmission path from and to the peripheral devices respectively, comprising the steps of

a) dividing the network of antennas into a first network and a second network comprising a first main transmission path part and a second main transmission path part of the main transmission path respectively an intermediate coupling device being coupled to the first and second main transmission path parts; and  
at a location between the first and second main transmission path parts:

b) splitting the first main transmission path part into a first group of intermediate transmission paths or transmission of different carrier signals over different intermediate transmission paths of the first group;

c) splitting the second main transmission path part into a second group of intermediate transmission paths for transmission of different carrier signals over different intermediate transmission paths of the second group; and

d) connecting an intermediate path of the second group to an intermediate path of the first group or to a further peripheral device.

2. (Previously Presented) The method according to claim 1, wherein an intermediate path of the first group of intermediate paths is connected to an intermediate path of the second group of intermediate paths or to an intermediate path terminating member.

3. (Previously Presented) The method according to claim 2, wherein an input of the intermediate coupling device for connection to the further peripheral device is connected to an intermediate path of the second group of intermediate paths or to an intermediate path terminating member.

4. (Previously Presented) A transmission system, comprising a main coupling device and a network of distributed antennas having a cable providing a main transmission path, the main coupling device being suitable for coupling the cable to one or more peripheral devices, each of which being suitable for transmission of one or more carrier signals, which each occupy a different radio frequency band, wherein the network of antennas being divided into first and second networks providing first and second main transmission path parts of the main transmission path respectively, an intermediate coupling device being coupled to the first and second main transmission path parts and splitting the first and second main transmission path parts into a first and second groups of intermediate paths respectively for transmission per group of intermediate paths of different carrier signals over different intermediate transmission paths, and the intermediate coupling device connecting an intermediate path of the second group to an intermediate path of the first group or to a further peripheral device.

5 (Previously Presented) The transmission system according to claim 4, wherein a path of the first group of intermediate paths is connected to a path of the second group of intermediate paths or to an intermediate path terminating member

6. (Previously Presented) The transmission system according to claim 5, wherein an input of the intermediate coupling device for connection to the further peripheral device is connected to an intermediate path of the second group of intermediate paths or to an intermediate path terminating member.

7. (Previously Presented) The transmission system according to claim 6 wherein the intermediate paths of the first and second groups of intermediate paths and

the further peripheral device are connected to each other by remote controllable electronic switches.

8. (Previously Presented) The transmission system according to claim 7, wherein remote control of the electronic switches is exercised by control functionality of a peripheral device which is associated with the switch.

9. (Previously Presented) The transmission system according to claim 4, wherein a first port of circulator is connected to a first intermediate path, a second port is connected to a short circuit or to a further peripheral device, and a third port of the circulator is connected to a second intermediate.

10. (Previously Presented) The transmission system according to claim 9, wherein with a further peripheral device connected to the second port of circulator the further peripheral device provides a matched load to said second port.

11. (Previously Presented) The transmission system according to claim 10, wherein with a further peripheral device connected to the second port of circulator the further peripheral device is connected to said second port through an isolator which provides a matched load to said second port.

12. (Previously Presented) The transmission system according to claim 11, wherein the isolator is a further circulator of which an intermediate or second port is terminated by a matched load.